# 10/089128 PATENT COOPERATION TREATY

# From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

Incyte Genomics, Inc.
3160 Porter Drive
Palo Alto, CA 94304
United States of America
TECH CENTER 1600 290 Date of mailing (day/month/year) 01 December 2002 (01.12.02) Applicant's or agent's file reference IMPORTANT NOTIFICATION PT-1066 PCT International filing date (day/month/year) International application No. 19 September 2000 (19.09.00) PCT/US00/25643 Priority date (day/month/year) International publication date (day/month/year) 23 September 1999 (23.09.99) 29 March 2001 (29.03.01)

Applicant

INCYTE GENOMICS, INC. et al

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
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Priority date Priority application No.		Country or regional Office or PCT receiving Office	Date of receipt of priority document
23 Sept 1999 (23.09.99)	60/155,760	US	14 Dece 2000 (14.12.00)
24 Sept 1999 (24.09.99)	60/156,294	US	14 Dece 2000 (14.12.00)
24 Sept 1999 (24.09.99)	60/155,939	US	14 Dece 2000 (14.12.00)
28 Sept 1999 (28.09.99)	60/156,565	US	14 Dece 2000 (14.12.00)
28 Sept 1999 (28.09.99)	60/156,624	US	12 Dece 2000 (12.12.00)
28 Sept 1999 (28.09.99)	60/156,625	US	28 Dece 2000 (28.12.00)
24 Nove 1999 (24.11.99)	60/167,542	US	14 Dece 2000 (14.12.00)
24 Nove 1999 (24.11.99)	60/167,522	US	14 Dece 2000 (14.12.00)
24 Nove 1999 (24.11.99)	60/167,453	US	15 Dece 2000 (15.12.00)
24 Nove 1999 (24.11.99)	60/167,517	US	12 Dece 2000 (12.12.00)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Khemais BRAHMI
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

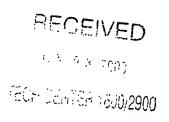
# Continuation of Form PCT/IB/304

# NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

Date of mailing (day/month/year)

01 December 2002 (01.12.02)

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	<u>Date of receipt</u> of priority document
24 Nove 1999 (24.11.99)	60/167,520	US	12 Dece 2000 (12.12.00)
24 Nove 1999 (24.11.99)	60/167,410	US	15 Dece 2000 (15.12.00)
24 Nove 1999 (24.11.99)	60/167,521	US	14 Dece 2000 (14.12.00)
29 Nove 1999 (29.11.99)	60/167,943	US	14 Dece 2000 (14.12.00)
29 Nove 1999 (29.11.99)	60/167,945	US	14 Dece 2000 (14.12.00)
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30 Nove 1999 (30.11.99)	60/168,429	US	13 Marc 2002 (13.03.02)
30 Nove 1999 (30.11.99)	60/168,432	US	13 Marc 2002 (13.03.02)
30 Nove 1999 (30.11.99)	60/168,197	US	13 Marc 2002 (13.03.02)
	60/168,468	US	13 Marc 2002 (13.03.02)
01 Dece 1999 (01.12.99)	60/168,599	US	13 Marc 2002 (13.03.02)
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02 Dece 1999 (02.12.99)	60/168,611	US	25 Nove 2002 (25.11.02)
02 Dece 1999 (02.12.99)	60/168,613	US	19 Nove 2002 (19.11.02)



# PATENT COOPERATION TREATY

# **PCT**

# NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

HAMLET-COX, Diana Incyte Genomics, Inc. 3160 Porter Drive Palo Alto, CA 94304 United States of America

Date of mailing (day/month/year) 25 November 2002 (25.11.02)	
Applicant's or agent's file reference PT-1066 PCT	IMPORTANT NOTIFICATION
International application No. PCT/US00/25643	International filing date (day/month/year) 19 September 2000 (19.09.00)
International publication date (day/month/year) 29 March 2001 (29.03.01)	Priority date (day/month/year) 23 September 1999 (23.09.99)
Applicant INCYTE GENOMICS, INC. et al	· · · · · · · · · · · · · · · · · · ·

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Facsimile No. (41-22) 740 14 35	The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Khemais BRAHMI
1 acsimile 140. (41-22) 7-0.14.00	Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

# Continuation of Form PCT/IB/304

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# **PCT**

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(PCT Administrative Instructions, Section 411)

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HAMLET-COX, Diana Incyte Genomics, Inc. 3160 Porter Drive Palo Alto, CA 94304 ETATS-UNIS D'AMERIQUE

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Taieb AKREMI
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

# Continuation of Form PCT/IB/304

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02 Dece 1999 (02.12.99)	60/168,857	US	13 Marc 2002 (13.03.02)	





## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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# (43) International Publication Date 29 March 2001 (29.03.2001)

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# (10) International Publication Number WO 01/21836 A2

GENOMICS, INC. [US/US]; 3160 Porter Drive, Palo

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Alto, CA 94304 (US).

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		1) September	2000 (19.09.2	2000)	US	60/167,542 (CIP)
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	60/155,760	23 September 1999 (		US	Filed on	24 November 1999 (24.11.1999)
	60/156,294	24 September 1999 (		US	US	60/167,520 (CIP)
	60/155,939	24 September 1999 (2		US	Filed on	24 November 1999 (24.11.1999)
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	60/168,432	30 November 1999 (3		US	Filed on	30 November 1999 (30.11.1999)
	60/168,197	30 November 1999 (3	,	US	US	60/168,197 (CIP)
	60/168,468	1 December 1999 (		US	Filed on	30 November 1999 (30.11.1999)
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	60/168,857	2 December 1999 ((	•	US	Filed on	1 December 1999 (01.12.1999)
	60/168,611	2 December 1999 ((		US	US	60/168,599 (CIP)
	60/168,613	2 December 1999 (	•	US	Filed on	1 December 1999 (01.12.1999)
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•	US	appureations:	60/155,760 (	CID)	US	2 December 1999 (02.12.1999) 60/168,613 (CIP)
	Filed on	23 September			Filed on	2 December 1999 (02.12.1999)
	US	25 September	60/156,294 (		rned on	2 December 1999 (02.12.1999)
	Filed on	24 September			(71) Applicant (for	r all designated States except US): INCYTE
	11100 011	24 September	1777 (AT.UZ.)	,,,,,	(11) Whitemar (10)	un designated bidies except Obj. HICT IE

(54) Title: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS

(57) Abstract: The present invention provides purified human polynucleotides for diagnostics and therapeutics (dithp). Also encompassed are the polypeptides (DITHP) encoded by dithp. The invention also provides for the use of dithp, or complements, oligonucleotides, or fragments thereof in diagnostic assays. The invention further provides for vectors and host cells containing dithp for the expression of DITHP. The invention additionally provides for the use of isolated and purified DITHP to induce antibodies and to screen libraries of compounds and the use of anti-DITHP antibodies in diagnostic assays. Also provided are microarrays containing dithp and methods of use.

60/155,939 (CIP)

24 September 1999 (24.09.1999)



US

Filed on





(72) Inventors; and

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- (74) Agents: HAMLET-COX, Diana et al.; Incyte Genomics, Inc., 3160 Porter Drive, Palo Alto, CA 94304 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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	60/156.294	24 September 1999 (24.09.1999)	US	US	60/167,520 (CIP)
	60/155,939	24 September 1999 (24.09.1999)	US	Filed on	24 November 1999 (24.11.1999)
	60/156.565	28 September 1999 (28.09,1999)	US	US	60/167,410 (CIP)
	60/156.624	28 September 1999 (28.09.1999)	US	Filed on	24 November 1999 (24.11.1999)
	60/156.625	28 September 1999 (28.09.1999)	US	US	60/167,521 (CIP)
	60/167.542	24 November 1999 (24.11.1999)	US	Filed on	24 November 1999 (24.11.1999)
	60/167.522	24 November 1999 (24.11.1999)	US	US	60/167.943 (CIP)
	60/167.453	24 November 1999 (24.11.1999)	US	Filed on	29 November 1999 (29.11.1999)
	60/167.517	24 November 1999 (24.11.1999)	US	US	60/167.945 (CIP)
	60/167.520	24 November 1999 (24.11.1999)	US	Filed on	29 November 1999 (29.11.1999)
	60/167.410	24 November 1999 (24.11.1999)	US	US	60/168,265 (CIP)
	60/167.521	24 November 1999 (24.11.1999)	US	Filed on	30 November 1999 (30.11.1999)
	60/167.943	29 November 1999 (29.11.1999)	US	US	60/168,429 (CIP)
	60/167.945	29 November 1999 (29.11.1999)	US	Filed on	30 November 1999 (30.11.1999)
	60/168,265	30 November 1999 (30.11.1999)	US	US	60/168,432 (CIP)
	60/168,429	30 November 1999 (30.11.1999)	US	Filed on	30 November 1999 (30,11,1999)
	60/168,432	30 November 1999 (30.11,1999)	US	US	60/168.197 (CIP)
	60/168,197	30 November 1999 (30.11,1999)	US	Filed on	30 November 1999 (30.11.1999)
	60/168,468	1 December 1999 (01.12.1999)	US	US	60/168.468 (CIP)
	60/168,599	1 December 1999 (01.12.1999)	US	Filed on	1 December 1999 (01.12.1999)
	60/168,857	2 December 1999 (02.12.1999)	US	US	60/168,599 (CIP)
	60/168.611	2 December 1999 (02.12.1999)	US	Filed on	I December 1999 (01.12.1999)
	60/168,613	2 December 1999 (02.12.1999)	US	US	60/168,857 (CIP)
				Filed on	2 December 1999 (02.12.1999)
63)	Related by cont	inuation (CON) or continuation-in	-part	US	60/168,611 (CIP)
	(CIP) to earlier		-	Filed on	2 December 1999 (02.12.1999)
	US	60/155,760	(CIP)	US	60/168,613 (CIP)
	Filed on	23 September 1999 (23.09.)	1999)	Filed on	2 December 1999 (02.12.1999)
	US	60/156.294	(CIP)		
	Filed on	24 September 1999 (24,09,1	1999)	(71) Applicant (for al.	l designated States except US): INCYTE
	LIC	60(155.020)			AC DIGUICI SIKO D D D.

[Continued on next page]

GENOMICS, INC. [US/US]: 3160 Porter Drive, Palo

Alto, CA 94304 (US).

(54) Title: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS

(57) Abstract: The present invention provides purified human polynucleotides for diagnostics and therapeutics (dithp). Also encompassed are the polypeptides (DITHP) encoded by dithp. The invention also provides for the use of dithp, or complements, oligonucleotides, or fragments thereof in diagnostic assays. The invention further provides for vectors and host cells containing dithp for the expression of DITHP. The invention additionally provides for the use of isolated and purified DITHP to induce antibodies and to screen libraries of compounds and the use of anti-DITHP antibodies in diagnostic assays. Also provided are microarrays containing dithp and methods of use.

60/155.939 (CIP)

24 September 1999 (24.09.1999)



US

Filed on



- (72) Inventors; and
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- Drive #2. Sunnyvale, CA 94087 (US). AMSHEY, Stefan [US/US]: 1541 Canna Court. Mountain View. CA 94043 (US). FONG, Willy, T. [US/US]: 572 Cambridge Street. San Francisco. CA 94134 (US).
- (74) Agents: HAMLET-COX, Diana et al.: Incyte Genomics. Inc., 3160 Porter Drive, Palo Alto, CA 94304 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- (88) Date of publication of the international search report: 31 January 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

International Application No PCT/US 00/25643

PCT/US 00/25643 A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 C12N15/00 C12N15/63 CO7K14/47 C07K16/00 C12Q1/68 G01N33/68 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K C12Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, EMBL, MEDLINE, EMBASE, BIOSIS, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category \* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Х DATABASE EMBL [Online] 1-3 ID/AC: AC08383, 4 August 1999 (1999-08-04) DOE JOINT GENOME INSTITUTE: "Sequencing of human chromosome 5" XP002167659 abstract 4-19 WO 97 33551 A (MILLENNIUM PHARMACEUTICALS) 4-19 18 September 1997 (1997-09-18) the whole document WO 99 02724 A (MOUNT SINAI HOSPITAL CORP Υ 4-19 ;BERNSTEIN ALAN (CA); CARUANA GEORGINA () 21 January 1999 (1999-01-21) the whole document Further documents are listed in the continuation of box C. Х Х Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 16. 08. 2001 17 May 2001

Form PCT/ISA/210 (second sheet) (July 1992)

1

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Hagenmaier, S

International Application No
PCT/US 00/25643

		PC1/05 0	0/23013
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to daim No.
Α	WO 99 46293 A (FU GANG ;ZHANG QINGHUA (CN); WANG YAXIN (CN); WU JISHENG (CN); SHA) 16 September 1999 (1999-09-16) the whole document		
Α	WO 98 56951 A (ABBOTT LAB) 17 December 1998 (1998-12-17) the whole document		
Α	WO 98 25959 A (CHIRON CORP) 18 June 1998 (1998-06-18) the whole document		
P,X	EP 1 033 401 A (GENSET SA) 6 September 2000 (2000-09-06) Seq.ID 1363 (AC/ID:C01365), claim 1, 71pp		1-19
E	WO 01 02568 A (CHIRON CORP ;HYSEQ INC (US)) 11 January 2001 (2001-01-11) See Sequence 2127, AC/ID AX071655		1-19
E	WO 01 07611 A (BAKER KEVIN P ;GENENTECH INC (US); GODDARD AUDREY (US); WOOD WILLI)  1 February 2001 (2001-02-01)  See Sequence 416, AC/ID: AX079672		1-19

1

International application No. PCT/US 00/25643

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.:     because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-19 (all partially)
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-19 (all partially)

Invention 1

Isolated polynucleotide comprising a polynucleotide sequence with Seq.ID 1, methods, compositions and microarrays using said polynucleotide, as well as a recombinant polynucleotide comprising a promoter sequence operably linked to Seq.ID 1 and a cell and a transgenic organism comprising such a recombinant polynucleotide, a purified polypeptide encoded by Seq.ID 1, a method of producing such a polypeptide, an antibody which specifically binds to this polypeptide as well as methods of identifying a test compound using this polypeptide.

2. Claims: 1-19 (all partially)

Inventions 2-71

Isolated polynucleotide comprising a polynucleotide sequence with Seq.ID 2, methods, compositions and microarrays using said polynucleotide, as well as a recombinant polynucleotide comprising a promoter sequence operably linked to Seq.ID 2 and a cell and a transgenic organism comprising such a recombinant polynucleotide, a purified polypeptide encoded by Seq.ID 2, a method of producing such a polypeptide, an antibody which specifically binds to this polypeptide as well as methods of identifying a test compound using this polypeptide.

..idem for Seq.IDs 3-71

Information on patent family members

International Application No PCT/US 00/25643

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9733551	Α	18-09-1997	AU US	2582897 A 6100031 A	01-10-1997 08-08-2000
WO 9902724	Α	21-01-1999	AU	8203598 A	08-02-1999
WO 9946293	Α	16-09-1999	NONE		
WO 9856951	Α	17-12-1998	ЕP	0990045 A	05-04-2000
WO 9825959	Α	18-06-1998	AU EP	5796298 A 0948531 A	03-07-1998 13-10-1999
EP 1033401	Α	06-09-2000	NONE		
WO 0102568	А	11-01-2001	AU	6069300 A	22-01-2001
WO 0107611	Α	01-02-2001	AU	6117000 A	13-02-2001



AUG 2 1 2001

# From the INTERNATIONAL SEARCHING AUTHORITY

INCYTE GENOMICS, INC. Attn. HAMLET-COX. Diana

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT

3160 Porter Drive Palo Alto, CA 94304 UNITED STATES OF AMERICA	OR THE DECLARATION  (PCT Rule 44.1)
	Date of mailing (day/month/year) 16/08/2001
Applicant's or agent's file reference PT-1066 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 00/ 25643	International filing date (day/month/year) 19/09/2000
INCYTE GENOMICS, INC. et al.	
1. X The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is norma International Search Report; however, for more det Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35  For more detailed instructions, see the notes on the accor  2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.  3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has been applicant's request to forward the texts of both the protest no decision has been made yet on the protest; the applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Ily 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.  Impanying sheet.  Report will be established and that the declaration under the tails and the declaration under the declar
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international applif the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publicat Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound in the priority date or could not be elected because they are not bound in the priority date.	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the ion.  It preliminary examination must be filed if the applicant of the from the priority date (in some Offices even later).  In the prescribed acts for entry into the national phase demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Catherine Humbert

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

## **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

 Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

## What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

# NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

## It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

# Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

# Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# TENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PT-1066 PCT	FOR FURTHER see Notification of (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/25643	19/09/2000	23/09/1999
Applicant		
INCYTE GENOMICS, INC. et a	11.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of5sheets. a copy of each prior art document cited in this	report.
Basis of the report		
<ul> <li>a. With regard to the language, the in language in which it was filed, unle</li> </ul>	nternational search was carried out on the basess otherwise indicated under this item.	sis of the international application in the
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this
was carried out on the basis of the	sequence listing :	ternational application, the international search
<b>T</b>	nal application in written form. rnational application in computer readable form	2
	this Authority in written form.	
. =	this Authority in computer readble form.	
	sequently furnished written sequence listing do	pes not go beyond the disclosure in the
the statement that the infor furnished	mation recorded in computer readable form is	identical to the written sequence listing has been
——————————————————————————————————————	d unsearchable (See Box I).	
3. X Unity of invention is lack	ing (see Box II).	
4. With regard to the title,		
X the text is approved as sub	mitted by the applicant.	
the text has been establish	ed by this Authority to read as follows:	
		į
5. With regard to the abstract,		
the text is approved as sub		
the text has been establish within one month from the c	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be publis	hed with the abstract is Figure No.	
as suggested by the application	ant.	None of the figures.
because the applicant failed	d to suggest a figure.	
because this figure better c	haracterizes the invention.	



Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-19 (all partially)
Remark o	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-19 (all partially)

Invention 1

Isolated polynucleotide comprising a polynucleotide sequence with Seq.ID 1, methods, compositions and microarrays using said polynucleotide, as well as a recombinant polynucleotide comprising a promoter sequence operably linked to Seq.ID 1 and a cell and a transgenic organism comprising such a recombinant polynucleotide, a purified polypeptide encoded by Seq.ID 1, a method of producing such a polypeptide, an antibody which specifically binds to this polypeptide as well as methods of identifying a test compound using this polypeptide.

2. Claims: 1-19 (all partially)

Inventions 2-71

Isolated polynucleotide comprising a polynucleotide sequence with Seq.ID 2, methods, compositions and microarrays using said polynucleotide, as well as a recombinant polynucleotide comprising a promoter sequence operably linked to Seq.ID 2 and a cell and a transgenic organism comprising such a recombinant polynucleotide, a purified polypeptide encoded by Seq.ID 2, a method of producing such a polypeptide, an antibody which specifically binds to this polypeptide as well as methods of identifying a test compound using this polypeptide.

...idem for Seq.IDs 3-71

Relevant to claim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/00 C12N15/63 C07K14/47 C07K16/00 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

G01N33/68

C. DOCUMENTS CONSIDERED TO BE RELEVANT

 $\begin{array}{ll} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07K} & \mbox{C12Q} \\ \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

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	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.
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